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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/869,931	07/09/2001	Stanley B. Mirviss	ACR6100US	1591
7590 10/14/2004		EXAMINER		
Ralph J Mancini			OH, TAYLOR V	
Akzo Nobel Inc				
Intellectual Prop	erty Department		ART UNIT	PAPER NUMBER
7 Livingstone A	venue		1625	7
Dobbs Ferry, NY 10522-3408			DATE MAILED: 10/14/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/869,931	MIRVISS ET AL.			
Office Action Summary	Examiner	Art Unit			
	Taylor Victor Oh	1625	•		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	rith the correspondence addi	ess		
A SHORTENED STATUTORY PERIOD FOR REPLY	/ IS SET TO EXDIDE 1 N	AONTH(S) EDOM			
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a within the statutory minimum of thi rill apply and will expire SIX (6) MOI cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133).	munication.		
Status					
1) Responsive to communication(s) filed on <u>08 A</u>	pril 2002 .				
2a) ☐ This action is FINAL . 2b) ☐ Thi	s action is non-final.				
Since this application is in condition for allowa closed in accordance with the practice under the practice of Claims.	nce except for formal ma Ex parte Quayle, 1935 C	atters, prosecution as to the D. 11, 453 O.G. 213.	merits is		
Disposition of Claims	•				
4) Claim(s) <u>1-32</u> is/are pending in the application					
4a) Of the above claim(s) is/are withdraw	n from consideration.				
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.	de alien un action action				
8) ☐ Claim(s) <u>1-32</u> are subject to restriction and/or e Application Papers	lection requirement.				
9) The specification is objected to by the Examiner	•				
10) The drawing(s) filed on is/are: a) accep		the Examiner			
Applicant may not request that any objection to the	•				
11) The proposed drawing correction filed on		• •			
If approved, corrected drawings are required in rep					
12) The oath or declaration is objected to by the Exa	aminer.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents	have been received.				
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prior application from the International Bur	eau (PCT Rule 17.2(a)).		age		
* See the attached detailed Office action for a list of	·				
14) Acknowledgment is made of a claim for domestic			pplication).		
 a) The translation of the foreign language provided 15) Acknowledgment is made of a claim for domestic 			·		
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s). Informal Patent Application (PTO-			

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The Lack of Unity

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- Group I, claims 1-5, 15-16, 19-21, and 25-28, is drawn to quaternary ammonium compounds.
- Group II, claims 7-11, is drawn to a process for preparing the multiple functional quaternary ammonium compounds.
- Group III, claims 12-14, is drawn to a process for preparing the multiple functional hydrophilic/hydrophobic compounds obtained from the reaction of an amine with a dicarboxylic acid.

Group IV, claims 17-18, is drawn to a viscosity modifying agent .

Group V, claims 22-24, is drawn to an ore flotation aid.

Group VI, claims 6 and 29-32, is drawn to a surfactant composition .

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I. The inventions listed as Groups do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

the international application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept (" requirement of unity of invention").

PCT Rule 13.2 states "Where a group of inventions is claimed in one and the same international application, the requirement of unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

In the instant case, the invention of Group I is directed to the quaternary ammonium compounds, whereas the invention of Group IV is directed to the viscosity modifying agent. Both may have a common core of the quaternary ammonium compounds. However, according to Lynch (U.S. 5,023,289), the alkylthioalkanoic acids act as a viscosity modifying agent devoid of any presence of the quaternary ammonium compounds. From this, Group I is not the special technical feature required in making the a viscosity modifying agent. There is no single general inventive concept and no unity of invention for the method or the process as defined in 37 CFR 1.475.

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37 CFR 1.475 states that a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combination of categories:

- a. A product and a process specially adapted for the manufacture of said product; or
- b. A product and a process of use of said product; or
- c. A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- d. A process and an apparatus or means specially designed for carrying out the said process; or
- e. A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specially designed for carrying out the said process.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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(4/19/B)

II. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1:48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taylor Victor Oh whose telephone number is 703-305-0809. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alan Rotman can be reached on 703-308-4698. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-2742 for regular communications and 703-305-7401 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

ALAN L. ROTMAN SUPERVISORY PATENT EXAMINER

alan L. Rotman

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